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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/078,818	02/19/2002	David Arthur Grosvenor	30003580-2	7126	
7590 11/25/2003 HEWLETT-PACKARD COMPANY Intellectual Property Administration P.O. Box 272400			EXAMINER NGUYEN, KIMBINH T		
			Fort Collins, CO 80527-2400		
			DATE MAILED: 11/25/2003	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application	No.	Applicant(s)  GROSVENOR ET AL.					
	10/078,818							
Office Action Summary	Examiner		Art Unit					
	Kimbinh T. N		2671					
The MAILING DATE of this communication ap Period for Reply	pears on the co	ver sheet with the c	orrespondence ad	ldress				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut - Any reply received by the Office later than three months after the mailin earmed patent term adjustment. See 37 CFR 1.704(b).  Status	136(a). In no event, oly within the statutory will apply and will execuse the applications.	however, may a reply be tim y minimum of thirty (30) days pire SIX (6) MONTHS from ion to become ABANDONE	nely filed s will be considered timel the mailing date of this c D (35 U.S.C. § 133).	y. ommunication.				
1)⊠ Responsive to communication(s) filed on <u>19 F</u>	ebruary 2002.							
2a) This action is <b>FINAL</b> . 2b) ⊠ This	·							
3) Since this application is in condition for allowated closed in accordance with the practice under the condition of the condition.	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)  Claim(s) 1-19 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5)  Claim(s) is/are allowed. 6)  Claim(s) 1-19 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/o	wn from consi							
Application Papers								
9) The specification is objected to by the Examine	er.							
10)☐ The drawing(s) filed on is/are: a)☐ acc	cepted or b)	objected to by the E	Examiner.					
• • • • • • • • • • • • • • • • • • • •	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  1) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
•	xaminer. Note	the attached Office	Action of form P	10-152.				
Priority under 35 U.S.C. §§ 119 and 120								
a) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:  1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea * See the attached detailed Office action for a list 13) Acknowledgment is made of a claim for domest since a specific reference was included in the fir 37 CFR 1.78. a) The translation of the foreign language priority Acknowledgment is made of a claim for domest reference was included in the first sentence of the service of	ts have been rets have been reprity documents at (PCT Rule 1 tof the certified tic priority underst sentence of ovisional application priority understanders.	eceived. eceived in Applications have been received 7.2(a)). d copies not received 1.35 U.S.C. § 119(e) the specification or cation has been received 35 U.S.C. §§ 120	on No  ed in this National  ed.  e) (to a provisional in an Application  eived.  and/or 121 since	I application) Data Sheet. a specific				
Attachment(s)		_						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2	5)	☐ Interview Summary ☐ Notice of Informal P ☐ Other:						

Art Unit: 2671

#### **DETAILED ACTION**

1. Claims 1-19 are pending in the application.

#### Specification

2. The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

### Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text are permitted to be submitted on compact discs.) or
  - REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.)
- (e) BACKGROUND OF THE INVENTION.
  - (1) Field of the Invention.
  - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (f) BRIEF SUMMARY OF THE INVENTION.
- (g) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (h) DETAILED DESCRIPTION OF THE INVENTION.
- (i) CLAIM OR CLAIMS (commencing on a separate sheet).

Claim Rejections - 35 USC § 102

Page 3

Application/Control Number: 10/078,818

Art Unit: 2671

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1, 13, 15-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Anderson et al. (6,587,119).

Claim 1, Anderson et al. discloses a set of image data of static image (col. 4, lines 62-64); identifying characteristics of the image content (multiple images, a panorama image, a burst image, a time lapse image. A panorama image comprises overlapping images of a larger scene; col. 4, line 63 through col. 5, line 5); generating a set of video data (col. 2, lines 57-67), a set of video data for output to a display device (LCD) connected to the CPU (col. 3, lines 13-44), the video data representing displayable motion over the static image and generating in accordance with the image content characteristics (col. 5, lines 6-32).

Claim 13, Anderson et al. discloses the image data is representative of a displayable photograph (capturing high quality static photographs; col. 1, lines 36-37).

Claim 15, the rationale provided in the rejection of claim 1 is incorporated herein.

In addition, Anderson teaches a computer readable medium (col. 3, lines 45-51).

Claim 16, Anderson et al. discloses a processor (microprocessor), a data port (input/output) and video port (camera) the processor receives image data (input),

Art Unit: 2671

performs identifying characteristics of the image content (col. 4, lines 64-67), generating and output the video data (col. 2, lines 57-67).

Claim 17, the rationale provided in the rejection of claim 16 is incorporated herein.

5. Claim 2 is rejected under 35 U.S.C. 102(e) as being anticipated by Martin et al. (6,256,061).

Claim 2, Martin et al. discloses determining predefined image characteristics presented in the image (hemispherical/spherical image, a high resolution still image; col. 4, lines 1-3), executing an algorithm (the ASCII command file or command sequencing data file; col. 3, line 63 64; col. 4, lines 4-13) associated with characteristics identified, the algorithm defining rules (instructions or command) for generating a moving object over the image (col. 9, lines 35-47).

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 3, 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Martin et al. (6,256,061) in view of Lau et al. (6,633,309).

Claim 3, Lau et al. discloses identifying a predefined image class (col. 5, lines 52-60)), in that image class, sub-parts of the image (sub-objects) have predefined

Art Unit: 2671

characteristics (col. 10, lines 47-50), establishing index frames based on a close-up view of sub-part (col. 2, lines 15-22), executing an algorithm (a software program) to determine a display path from one to index frame to the next (col. 5, lines 25-31). It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the identifying a predefined image, viewing a close-up image as taught by Lau into the spherical still image of Martin, because it would allow an operator is able to view a close-up location in the zoom window(col. 2, lines 17-18).

Claim 18, the rationale provided in the rejection of claims 2 and 17 is incorporated herein.

Claim 19, the rationale provided in the rejection of claims 3 and 17 is incorporated herein.

7. Claims 4-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Martin et al. (6,256,061) in view of Lau et al. (6,633,309) and further in view of Madrane (6,573,907), Foote et al. (6,404,925), Terashita et al. (5,128,711) and Anderson et al. (6,587,119).

Claim 4, Madrane discloses determining the order of index frames to be displayed (col. 1, lines 62-64; figs. 3, 4); the amount of time for each index frame, the transition between each index frame (col. 1, lines 27-35). It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the order of index frame as taught by Madrane into the spherical still image of Martin, because it would develop in the fields of video indexing and video editing (col. 1, lines 62-64).

Art Unit: 2671

Claims 5, 6, Foote et al. discloses identifying regions of interest (col. 24, lines 45-47) and performing a feature recognition identifies human facial features, index frame based on a close-up view of identified facial features (col. 20, lines 35-38). It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the region of interest as taught by Foote into the spherical still image of Martin, because selecting video regions that allows visualizing as well as supporting non-contiguous selection (col. 24, lines31-33).

Claim 7, Terashita et al. comparing the facial features with a database of prestored facial features for facial features already present in the database (col. 2, lines 55-59). It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate comparing the facial feature as taught by Terashita into the spherical still image of Martin, because it would detect correctly facial image without requiring a difficult operation (col. 2, lines 60-62).

Claim 8, Anderson et al. determining the orientation of the facial features, generating a display path (path of panning) which follows the general gaze direction which the facial features exhibit (col. 5, lines 42-52; fig. 4B). Claim 9, Anderson et al. discloses identifying a predefined image class, in that there is dominant edge, line or curve (panning path, a curve fitting function (col. 8, lines 42-49; figs. 9G, 9H), Anderson does not teach executing an algorithm; however, Martin teaches executing an algorithm for determining a display path following dominant edge, line or curve (col. 10, lines 24-27). It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the command sequencing data file as taught by

Art Unit: 2671

Martin into defining a panning and zooming path across a still image of Anderson's system for provide an algorithm associated with predefined image, because it would provide video motion rate images via low bandwidth digital transmissions or small data files from a still image taken of an inanimate environment (abstract).

Claim 10, the rationale provided in the rejection of claims 3 and 9 is incorporated herein.

Claim 11, the rationale provided in the rejection of claim 2 is incorporated herein. In addition, Martin teaches prompting the user manually (instruction how to select the image portions) to select an option in a sub-level (col. 10, lines 21-23). Martin does not teach selecting an option in a sub-level; however, Martin teaches selecting image portions (col. 9, lines 37-39). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the selecting image portions, because it would allow a user may take control of the tour of the displayed image and explore the image on his own (col. 3, lines 42-43).

8. Claims 12, 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson et al. (6,587,119) in view of Uchihachi et al. (6,535,639) and Madrane (6,573,907).

Claim 12, Uchihachi et al. discloses generating video data of video sub-clips (video was divided into 69 segments or shots), each sub-clip representing displayable motion over a different part of the static image, editing for linking the sub-clips to form a second set of video data (col. 4, line 65 through col. 5, line 4). It would have been obvious to one of ordinary skill in the art at the time the invention was made to

Art Unit: 2671

incorporate video sub-clip as taught by Uchihachi into defining a panning and zooming path across a still image of Anderson's system, because it would create segments (video clip) from the same cluster ID (abstract).

Claim 14, Madrane discloses the data is representative of panning motion, the initial and end frames representing salient parts of the image (salient still; col. 3, lines 38-56). It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the salient still as taught by Madrane into defining a panning and zooming path across a still image of Anderson's system for provide a salient still of the video sequence, because it would provide a composite image called salient still, representative of the video sequence (col. 3, lines 51-53).

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Kimbinh Nguyen** whose telephone number is **(703)** 305-9683. The examiner can normally be reached **(Monday-Thursday from 7:00 AM to 4:30 PM and alternate Fridays from 7:00 AM to 3:30 PM)**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Zimmerman, can be reached at (703) 305-9798.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Or faxed to:

# Page 9

# (703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Part II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

November 20, 2003

Cambons reguen

Kimbinh Nguyen

Patent Examiner AU 2671